## KHADERIA HIGHER SECONDARY SCHOOL, VANIYAMBADI.

## **MODEL COMMON QUARTERLY EXAM (2) - SEP 2024**

CLASS: 12-B	BIOLOGY	MAXIMUM MARKS: 70				
	TIME: 3 HRS.					
I. CHOOSE THE CORRECT ANSWER		8 X 1=8				
1) An eminent Indian embryologist i	S					
a) S.R. Kashyap b) P. M	aheswari c) M.S.Swaminathan	d) K.C. Mehta				
2) Arrange the layers of antherwall from locus to periphery						
a) Epidermis, middle layers, tapetum, endothecium						
b) Tapetum, middle layers, epidermis, endothecium						
-	c) Endothecium, epidermis, middle layers, tapetum					
d) Tapetum, middle layers, endothecium, epidermis						
3) Which one of the following is an example of polygenic inheritance?						
a) Flower colour in mirabilis						
c) Pod shape in garden pea d) Skin colour in humans						
4) "Gametes are never hybrid "This is a statement of						
a) Law of dominance	b) Law of independe					
c) Law of segregation	d) Law of random fe	rtilization				
5) The term mutation was introduced by a) Hugo de Vries b) Muller c) M.S. Swaminathan d) W.S. Sutton						
, ,		d) W.S. Sutton				
6) In which of the techniques Ethidium Bromide is used a) Southern Blotting techniques b) Western Blotting techniques						
c) Polymerase chain reaction		_				
c) Polymerase chain reaction d) Agrose gel Electroporosis 7) Virus free plants are developed from						
		e d) Cell suspension culture				
8) Solidifying agent used in plant tissue culture is						
	altous chloride c) EDTA	d) Agar				
II. ANSWER ANY FOUR QUESTIONS		4X2=8				
9) Define Pollinium. Give an example.						
10) What is called polyembryony?						
11) Define synteny.						
12) What is called chromosomal aberration?						
13) What do you know about the word PBR322?						
14) What is called totipotency?						
III. ANSWER ANY THREE QUESTIO	NS. QUESTION NO.19 IS COMPULS	ORY. 3X3=9				
15) Write notes on endothecium.						
16) What are the Importance of crossing over?						
17) Write the microorganisms used for the production of single cell protein.						
18) What is called cryopreservation?	<i>(</i>					
19) Distinguish habitat and niche.		2VE_10				
IV. ANSWER ALL THE QUESTIONS:		2X5=10				
20) a) Draw and label the T.S. of mature anther. (OR)						
b) Describe dominant epistasis with an example.						
a) What is called fermentation? What are the process involved in fermer tation?						
-1, a, what is called for intentation		101 mor auton.				

(OR)

b) Write short notes on the application of plant tissue culture.

## BIO ZOOLOGY (35 Marks)

I. CHO	OOSE THE CORREC	T ANSWER.			8 X 1=8
1. Str	obilation occurs in				
	a) Sponge	b) Aurelia	c) Noctiluca	d) Amoeba	
2. Wh	ich of the following	is incorrect regandii	ng zw - zz type of sex d	etermination?	
	a) It occurs in bird	ls and some reptiles.			
	b) Females are ho	mogometic and male	es are heterogametic		
		are type of gamete		ırs in gypsy moth	
3. The		rogenous bases in h	uman genome is estim	ated to be about	
	a) 3.5 million	b) 35000	c) 35million	d) 3.1 billio	n
4. AII	OS virus has				X
	a) single stranded		b) Double strand	led RNA Single st	randed DNA
	d) Double strande				
5. On	-	nypotnesis was prop			
	a) Goeorge Beadle	•	-	d) A and B	
6. In (	_	-	gn of algae is appeared		
	a) Devonian	b) silurian	c) ordorician	d) cambriar	1
7. Am		rugs which one is no			
0.0	a) Amphetamines	,	c) opium	d) nicotine.	
8. Cyc	-	imumosuppressive (			
	a) Aspergillus nige		b) Managcus pur		
	c) Penicillium nota		d) Trichoderma į	polysporum	4370 0
	SWER ANY FOUR (				4X2=8
		different from repro	ductive phase?		
	That is inhibin? State				
-	That is Mayer-Rokita				
-		? Mention its functio		•	
-			os are present in E.coli?	,	
-		s industrial alcohol?		III CODV	282-0
			STION NO.19 IS COMP	ULSUKY.	3X3=9
		voided in humans?			
-	Vrite notes on "Amin				
-	Irite three Application		nore common in the m	ala human hainga	.2
-	-	ections to Darwinisr		ale ilulliali belligs	· <b>:</b>
		of the human genom			
	NSWER ALL THE QU		ie project.		2X5=10
20)	•	erent types of synga	my with avamples		2AJ-10
20)	a) Explain the unit	creme types of synga.	(OR)		
	h) I ict out the cali	ent features of genet			
21)	-			olain the causative	agent site of
<b>-</b> 1)	a) Write any two Bacterical disease in Human beings and explain the causative agent, site of infection, made of transmission and symptoms.				
	micedon, made of	dansinission and sy	(OR)		
	b) Explain the stri	icture of immunoglo	bulin with suitable dia	gram.	
	b) Emplain the stre	ictare or minimanogro	bailli with baltable ala	51 uiiii	